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AMENDMENT

To the Claims:

Please amend the claims as follows:

Claim 1 (original): A DC level wandering cancellation circuit, comprising:

a low pass filter, for receiving an input voltage;

a high pass filter coupled to the low pass filter;

an amplifier coupled to the high pass filter for receiving a reference voltage and an

output signal of the high pass filter;

a comparator coupled to the amplifier for receiving an output signal of the amplifier

to compare the reference voltage with the output signal of the amplifier;

a resistor coupled between outputs of the high pass filter and the amplifier;

a control logic coupled to the comparator for receiving a compared result from the

comparator; and

a switching means coupled between the high pass filter and the output of the

amplifier, wherein the switching means is turned on for a predetermined interval by the

control logic according to the compared result.

Claim 2 (original): The DC level wandering cancellation circuit of claim 1, wherein

when the compared result from the comparator is from a high level to a low level, or from

a low level to a high level, an output signal of the control logic changes to a high level to

turn on the switching means.

Claim 3 (original): The DC level wandering cancellation circuit of claim 2, wherein

the switching means is a transistor.

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Claim 4 (previously presented): The DC level wandering cancellation circuit of

claim 1, wherein the low pass filter comprises a first resistor and a first capacitor

connected in parallel, and the high pass filter comprises a second resistor and a second

capacitor connected in series, wherein the second capacitor is coupled between the first

and the second resistors.

Claim 5 (previously presented): The DC level wandering cancellation circuit of

claim 4, wherein the switching means is coupled between a node between the comparator

and the amplifier and a node between the second capacitor and the second resistor.

Claim 6 (original): The DC level wandering cancellation circuit of claim 1, wherein

the control logic further comprises:

a first inverter for receiving the compared result from the comparator;

a second inverter coupled to an output terminal of the first inverter;

a XOR gate configured to receive an output signal of the second inverter and the

compared result from the comparator;

a first NOR gate, having a first input terminal coupled to an output terminal of the

XOR gate, and a second input terminal;

a second NOR gate, having a first input terminal coupled to an output terminal of the

first NOR gate, a second input terminal, and an output terminal coupled to the second

input terminal of the first NOR gate;

a first D-type flip flop, having an input terminal coupled to the output terminal of the

second NOR gate, an output terminal, and a clock input terminal; and

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a second D-type flip flop, having an input terminal coupled to the output terminal of the first D-type flip flop, an output terminal coupled to the second input terminal of the second NOR gate, and a clock input terminal coupled to the clock input terminal of the first D-type flip flop for receiving a clock signal.

Claim 7-8 (cancelled)